

High School to College and Career Pathway: Post-Secondary

Area of Study: Skilled & Technical Sciences

Pathway: Drafting/CAD

Region: Bear River	District:	School:	College/Institution: Bridgerland Applied Technology College Articulation Agreement in place? Yes Name of Degree or Certificate: Associate of Applied Technology Degree-Computer Aided Drafting & Design
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High School				College		
Course Number	High School Suggested Academic Courses	H.S. Credit	College Credits	Course Number	College General Education Requirements	College Credits
Math 1010	*Intermediate Algebra		3	Math 1010	*Intermediate Algebra	90
ENG 1010	*Intro to Writing		3	ENG 1010	*Intro to Writing	90
Math 1050	College Algebra		4	Math 1050	College Algebra	120
	English 11					
	Physics					
	Drafting 1 {C-MC}					
	*Drafting 2 {C-MC}					
	*Drafting/CAD 3{C-MC}					
	*Basic Drafting & Design {BE-BR}					
	*Architectural Drafting {BE-BR}					
	*Drafting/CAD 3 {BE-BR}					
	Life or Physical Science Elective		3		Life or Physical Science Elective	90
	Any General Education Elective		3		Any General Education Elective	90

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Course CIP #	CTE Pathway Courses (credits for completion)	H.S. Credit	College Credits	Course #	College Major Course Requirements	College Credits
Course #	Foundation Courses: (required)	Credit				
15.1301	Drafting & Design Technology	.50				
15.1302	Drafting/CAD	.50				
15.1303	Architectural Drafting	1.00				
15.1306	Mechanical Drafting	1.00				
	Elective Courses:					
46.0201	Carpentry	1.00				
48.0503	Machine Tool	1.00				
48.0701	Woodworking	.50				
32.0199	Student Internship (Critical Workplace Skills)	.50				
					Core Courses (690 hours Required)	
				DRFT1010	*Technical Drafting	120
				DRFT1020	*Basic Computer Aided Drafting	120
				DRF 1030	Architectural Drafting	120
				DRF 1040	Pictorial Drafting	90
				BTEC1110	Computer Literacy	90
				WWSK1400	Workplace Relations	60
				DRFT1070	Applied Technical Math	90
					Elective Courses (810 hours required)	
				DRFT2110	Mechanical Drafting	60
				DRFT2120	Machine Design	60
				DRFT2130	Production Drafting (GD&T)	90
				DRFT2140	Engineering Design	90
				DRFT2150	3D Parametric Solid Modeling	120
				DRFT2160	Descriptive Geometry	60
				DRFT2170	Manufacturing Processes	60
				DRFT2180	Principles of Technology 1	60
				DRFT2185	Principles of Technology 2	60
				DRFT2190	Special Problems in Mechanical Design	15-60
				DRFT2210	Advanced Computer Aided Drafting	90
				DRFT2220	Computer Technology	90
				DRFT2230	Programming for CAD	90
				DRFT2240	Computer Numerical Control (CNC)	90
				DRFT2290	Special Problems in CAD Design	15-60

				DRFT2310	Residential Architectural Drafting	120
				DRFT2320	Commercial Drafting and Detailing	120
				DRFT2330	Architectural 3D Modeling and Rendering	90
				DRFT2340	Architectural CAD	90
				DRFT2390	Special Problems in Architectural Design	15-60
				DRFT2410	3D Modeling and Animation Design	120
				DRFT2450	Computer Graphics	90
				DRFT2490	Special Problems in Illustration Design	15-60
				DRFT2510	Structural Steel Detailing	90
				DRFT2520	Structural Design Applications	90
				DRFT2590	Special Problems in Structural Design	15-60
				DRFT2610	Process Pipe Drafting	90
				DRFT2620	Pipe Fabrication and Design	90
				DRFT2690	Special Problems in Pipe Design	15-60
				DRFT2710	Civil Drafting	90
				DRFT2720	Topographical Drafting	90
				DRFT2730	Surveying	90
				DRFT2790	Special Problems in Civil Design	15-60
				DRFT2820	Electronic Drafting Design	90
				DRFT2830	Electronic CAD	90
				DRFT2890	Special Problems in Electronic Design	15-60
				DRFT2900	Special Applications	1-180
				DRFT2910	Cooperative Work Experience	15-180
				ELEC1020	Electronic Fundamental	120
				MACH1700	Machine Shop	90
				MDTC2100	Wed Design Fundamentals	90
				MDTC2400	Computer Illustration I	90
				MDTC2450	Technical Illustration	90
				MDTC2660	Character Design Basics	90
				WKST1500	Job Seeking Skills	30
TOTAL Potential Credits Earned in High School			16	TOTAL Credits Required for Degree or Certificate		1980

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